PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:		(11) International Publication Number: WO 00/3793
G01N 33/50, A61K 49/00, C12N 15/01, A01K 67/033	A1	(43) International Publication Date: 29 June 2000 (29.06.0
(21) International Application Number: PCT/IE (22) International Filing Date: 16 December 1999 (30) Priority Data: 09/217,694 21 December 1998 (21.12.5 (63) Related by Continuation (CON) or Continuation-in (CIP) to Earlier Application US 09/217, Filed on 21 December 1998 ((71) Applicant (for all designated States except US): THE ICS COMPANY, INC. [CHFCH]; Universitat Zuterburestrasses 190, CH-80ST Zurich (CH).	(16.12.9 18) Un-Part 694 (Cl 21.12.9	BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, I; BS, FI, GB, GD, GE, GH, GM, HR, HU, DI, LI, NI, SI, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MM, MM, MX, NO, NZ, PI, PT, RO, R, SD, SE, SG, SI, SK, SI, TI, TM, TR, TT, TZ, UA, L US, UZ, VN, YU, ZA, ZW, ARTPO patent (GH, GM, FL, MW, SD, SI, SZ, TZ, UG, ZW), Burasian patent (AZ, BY, KG, KZ, MD, RU, TI, TM), European patent (FB, CH, CY, DE, DK, BS, FI, FR, GB, GR, IE, IT, I MC, NL, PT, SE), OAPI patent (BF, BI, CF, CG, CI, CGA, GN, GW, ML, MR, NE, SN, TD, TG). Publised With international search report. Before the expiration of the time limit for amending claims and to be republished in the event of the receipt
(72) Inventor; and (75) Inventor; Applicant (for US only): HAFEN, Emst Hochstrasse 95, CH-8044 Zurich (CH). (74) Agent: SCHLICH, George, William; Mathys & Sc Gray's Inn Road, London WCIX 8AL (GB).		
(54) Title: FUNCTION-BASED SMALL MOLECULAR WEIGHT COMPOUND SCREENING SYSTEM IN DROSOPHILA		

(57) Abstract

A methodology for screening libraries of compounds for desirable biological/therapeutic activities in a system that may be automated for the microinjection of compound(s) of interest into the open circulatory system (i.e., hemolymph) of Drosophila larvae genetically for the micronjection of compounds) or interest into the open cruciatury says and the control of compounds and a microline to sensitize a particular biochemical pathway, such as those related to a human classes, either by or procession of a human disease gene or by the activation of a Drosophila gene in the adult fly results in the development of an easily detectable phenotypes such that compounds that selectively interfere with this specific biochemical pathway will modify or suppress the phenotype and can be identified rapidly and efficiently.